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	Low-temperature light absorption by S/181/62/004/004/032/042 B102/B104	35
	For very low tomposition	
	$\alpha = \frac{4G(c_0)n_1e^6}{3c_1^{5/2}/2(b-1)kT\omega} + \frac{3b(b)e^2m_1^2m_2kT}{2\pi c_1^{1/2}/2m_1}; \text{ if } \omega \rangle \mu/k,$	20
	$\alpha = \frac{4G(\infty) n_i \mu^2 e^0}{3c\epsilon^{4/3} h^4 (b-1) kT\omega^3} \frac{3\Phi(b) \mu c^2 m_1^2 m_2 kT}{2\pi c\epsilon^{4/3} h^0 m\omega}$	# 1
	In the first case, swe <sup>4z</sup> , $f_0=1$ , in the second one, swe <sup><math>\mu/kT</math></sup> . (14).	1
	These relations show that, in contrary to the case of high temperatures, absorption will increase with decreasing temperature if the carriers are English-language references are: G. Gobeli, H. Fan. Phys. Rev. 119, 63, 1960; V. Yohuson, V. Lark-Horovitz. Phys. Rev. 71, 374, 1947.	<b>50</b> :
	ASSOCIATION: Volgogrädskiy pedagogicheskiy institut (Volgograd Pedagogical Institute)	<b>5</b> 5
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		<b>EO</b> .

L 11255-63 EWG(k)/FWT(1)/BDS/EEC(b)-2-AFFTC/ASD/ESD-3--Pz-4-AT/IJP(C)
ACCESSION NR: AP3000603 8/0181/63/005/005/1293/1296

AUTHOR: Yakovley, V. A.

TIFLE: Anisotropic absorption of light by current carriers in semiconductors in a strong electrical field

SOURCE: Fizika twerdogo tela, v. 5, no. 5, 1963, 1293/1296

TOPIC TAGS: semiconductors, absorption of light, current carrier

ABSTRACT: The absorption of light by electrons is computed for a conduction band in a strong electric field at various directions of light incident on the field. Computations for incident light in the general case are very complex but are simplified by considering propagation directions along one of the crystal axes. It is interesting that the formulas for cross section absorption are independent of the initial energy states of the electrons. Thus, the corresponding coefficient of absorption may be obtained without statistical averaging, through a simple multiplication by the number of optically active electrons per unit volume. This operation is shown in Equation (1). The anisotropy may be determined by the ratio of absorption coefficients as shown in Equation (2), which reduces to Equation (3) when the absolute value of the wave vector of incident photon multiplied by the width of conduction band yields a product much larger then unity. Orig. art. has:

12 formulas.			
ASSOCIATION: Volgogradski Institute)	y pedagogichaskiy institut ( <u>Yolgo</u> g	grad Pedagogical	
SURMITTED: 21 Nov62	DATE ACQ: 11Jun63	ENCL: O1	
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L 18422-63 EWT(1)/EWG(k)/BDS AFFTC/ASD/ESD-3/IJP(C) P2-4 AT ACCESSION NR: AP3005319 S/0181/63/005/008/2133/2137

AUTHOR: Yakovlev, V. A.

2

TITLE: Absorption of light by free carriers in semiconductors with short-range interacting field of impurity centers

SOURCE: Fizika tverdogo tela, v. 5, no. 8, 1963, 2133-2137

TOPIC TAGS: absorption, free carrier, semiconductor, impurity, short-range field, carrier current, optical transition, light wave, frequency

ABSTRACT: It is not now possible to give a detailed discussion of the conditions under which the potential of an impurity center becomes short range, but the author believes that this process is favored by a large concentration of current carriers shielding the impurity charges. He therefore investigates metals and semiconductors with high concentrations of carriers. He discards ionization of deep impurities and the Born approximation as explanations, and considers interaction with the field of a light wave. He thus uncovers the possibility of direct (first order) optical transitions within a single band, accompanied by the

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	absorption	n of light. He de impurities having n by the free carr e, and concentrat	u short range or	action. The	coefficient	of light	
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ACCESSION NR: APDIGOOG  AUTHOR: Babitekiy, B. D.; Dogoplosk, B. A.; Kormer, V. A.; Iobach, M. I.; Tinyalove, Ye. I.; Chemokova, H. N.; Islowley, V. A.  TITE: Stereospecific polymerization of butadiene in the presence of pi-slylic complexes  SOURCE: Vycokomolekulyarmyse soyedinentys, v. 6, ns. 12, 1964, 2202  TOPIC TAUS: polymerization, butadiene, catalysis, macromolecular chemistry  Abstract: It was shown that the polymerisation of butadiene in beassese colutions under the influence of catalytic systems based on pi-slylic complexes of nickel and metal halides (TiCl., VCl., WCl., MCl., Albr., and HCl., leads to the formation of a polymer with predominantly (up to 94%) dis-1,4-  units. The stereospecificity of these catalysts does met depend on the mature of the metal in the Lords soid. The polymerization temperature was 30-  SOO and the time S-18 heares.  ASSOCIATION: none  SIBHITED: 13 Julid.  EMCL: CO.  SIB COME: CO.  Cord 1/1 C.  Cord 1/1 C.  OTHER: CO.			T 2004 44 Curit Nevert
AUTHOR: Babitckiv, B. D.; Dogoplock, B. A.; Korner, V. A.; Lobach, H. I.; Thysbra, Y. Chesnokova, N. N.; Yakovlev, Y. A. A.; Lobach, H. I.; Thysbra, W. C.; Titte: Stereospecific polymerisation of butadiene in the presence of pi-allylic complexes  SOURCE: Vysokomolekulyarmyse soyedinemiya, v. 6, ne. 12, 1964, 2202  TOPIC TAGS: polymerisation, butadiene, catalysis, macromolecular chemistry  Abstract: It was shown that the polymerisation of butadiene in bensene solutions under the influence of equiptic systems hased on pi-allylic complexes of nickel and metal halides (TiClg, WClg, WClg, Albrg, and MClg)  loads to the formation of a polymer with predominantly (up to 94%) dis-1,4- units. The stereospecificity of these catalysts does not depend on the ma- ture of the metal in the Louis soid. The polymerization temperature was 30-  SOCIATION: none  SUBMITTED: 133164; ENCL: 00. SUB COES:00, 00  WO HER SOW: 000		ſ	ACCESSION AND ARCHISON ARCHISON AND ARCHISON ARCHISON AND ARCHISON ARCHISON AND ARCHISON ARCHISON AND ARCHISON AND ARCHISON AND ARCHISON AND ARCHISON AND ARCHISON ARCHISON AND ARCHISON AND ARCHISON ARCHISON ARCHISON AND ARCHISON ARC
TITE: Stereospecific polymerization of butadiene in the presence of pi-allylic complexes  SOURCE: Vysokomolekulyarmyse soyedineniya, v. 6, ne. 12, 1964, 2202  TOPIC TAGS: polymerization, butadiene, catalysis, macromolecular chemistry  Abstract: It was shown that the polymerization of butadiene in benzene solutions under the influence of estalytic system based on ni-allylic complexes of nickel and metal helides (TiCl <sub>2</sub> , WCl <sub>2</sub> , Albr <sub>2</sub> , and MiCl <sub>2</sub> )  leads to the formation of a polymer with predominantly (up to 94%) dis-1,4- units. The stereospecificity of these catalysts does not depend on the mature of the metal in the leads soid. The polymerization temperature was 30-  SOURCE: Vysokomolekulyarmyse soyedineniya, v. 6, ne. 12, 1964, 2202  TOPIC TAGS: polymerization, butadiene in the macromolecular chemistry  Abstract: It was shown that the polymerization benzene  solutions under the influence of catalysis as a but size of size of the second size of the second size of the second size of the second size of the metal in the leads soid. The polymerization temperature was 30-  SOURCE: Vysokomolekulyarmyse soyedineniya, v. 6, ne. 12, 1964, 2202  TOPIC TAGS: Vysokomolekulyarmyse soyedineniya, v. 6, ne. 12, 1964, 2202  TOPIC TAGS: Vysokomolekulyarmyse soyedineniya, v. 6, ne. 12, 1964, 2202  TOPIC TAGS: Vysokomolekulyarmyse soyedineniya, v. 6, ne. 12, 1964, 2202  TOPIC TAGS: Vysokomolekulyarmyse soyedineniya, v. 6, ne. 12, 1964, 2202  TOPIC TAGS: Vysokomolekulyarmyse soyedineniya, v. 6, ne. 12, 1964, 2202  TOPIC TAGS: Vysokomolekulyarmyse soyedineniya, v. 6, ne. 12, 1964, 2202  TOPIC TAGS: Vysokomolekulyarmyse soyedineniya, v. 6, ne. 12, 1964, 2202  TOPIC TAGS: Vysokomolekulyarmyse soyedineniya, v. 6, ne. 12, 1964, 2202  TOPIC TAGS: Vysokomolekulyarmyse soyedineniya, v. 6, ne. 12, 1964, 2202  TOPIC TAGS: Vysokomolekulyarmyse soyedineniya, v. 6, ne. 12, 1964, 2202  TOPIC TAGS: Vysokomolekulyarmyse soyedineniya, v. 6, ne. 12, 1964, 2202  TOPIC TAGS: Vysokomolekulyarmyse soyedineniya, v. 6, ne. 12, 1964, 2202  TOPIC TAGS:		- 1	ACCESSION RRY APSOLOGICAL AND
TITIE: Stereospecific polymerisation of butadiene in the presence of pi-allylic complexes  SURCE: Vycokomolekulyarmyye soyedineniya, v. 6, ne. 12, 1964, 2202  TOPIC TAGS: polymerisation, butadiene, catalysis, macromolecular chemistry  Abstract: It was shown that the polymerisation of butadiene in bensene solutions under the influence of estalytic system hand an pi-allylia complexes of nickel and metal halides (TiCl <sub>4</sub> , WCl <sub>4</sub> , WCl <sub>4</sub> , Albr <sub>2</sub> , and MCl <sub>2</sub> )  loads to the formation of a polymer with predominantly (up to 94%) dis-1,4— units. The stereospecificity of these catalysts does not depend on the mature of the metal in the Louis soid. The polymerisation temperature was 30—  ENCL: 00 SUB CODE:00, 00  SUB CODE:00, 00  LTES  Cord 1/1			Ye. T. t Chemnimya. N. N.I IEEUVIEV. In. McCo.
SOURCE: Vysokomolekulyarmyye soyedineniya, v. 6, ne. 12, 196k, 2202  TOPIC TAIS: polymerisation, butadiene, catalysis, macromolecular chemistry  Abstract: It was shown that the polymerisation of butadiene in bensene solutions under the influence of equivaries hased an misallylia complexes of nickel and metal halides (TiCl <sub>4</sub> , WCl <sub>4</sub> , Albr <sub>3</sub> , and MiCl <sub>2</sub> )  loads to the formation of a polymer with predominantly (up to 945) cis-1,4- units. The stereospecificity of these catalysts does not depend on the ma- ture of the metal in the Lexis acid. The polymerisation temperature was 30-  50° and the time 3-18 hours.  ASSOCIATION: none SIBHITED: 13Jaliki EMCL: 00 SIB CODE:00, 00  TESS.			WARE Standard of polymerisation of butadiene in the presence of pi-ellylic com-
TOPIC TAGS: polymerization, butadiene, catalysis, macrosolecular chemistry  Abstract: It was shown that the polymerization of butadiene in beasene colutions under the influence of catalytic systems hand an pi-allylia complexes of nickel and metal halides (TiGl <sub>4</sub> , WGl <sub>4</sub> , Albr <sub>3</sub> , and MiGl <sub>2</sub> )  loads to the formation of a polymer with predominantly (up to 94%) dis-1,4- units. The stereospecificity of these catalysts does not depend on the ma- ture of the metal in the Louis soid. The polymerization temperature was 30-  SO <sup>3</sup> and the time 3-18 hours.  ASSOCIATION: none  SUBCITED: 13 Julid;  ENCL: 00  SUB CODE:00, 00  Cord 1/1	.	1	plexes
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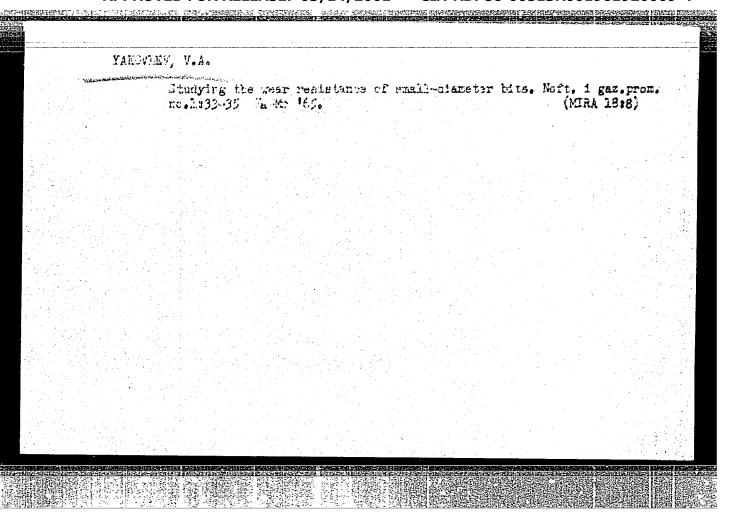
BABITSKIY, B.D.; DOLGOPLOSK, B.A.; KORMER, V.A.; LOBACH, M.I.; TINYAKOVA, Ye.I.; YAKOVLEV, V.A.

Influence of the nature of halogen atom on the stereospecificity of 7-allyl complexes of nickel in butadiene polymerization. Izv. AN SSSR. Ser. khim. no.8:1507 165. (MIRA 18:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskogo kauchuka im. S.V. Lebedeva i Institut neftekhimicheskogo sinteza im. A.V. Topchiyeva AN SSSR.

L 57011-65 ENT(m)/EUF(c)/EMP(3)/T Po-li/Pr-li RM UB/0020/65/161/003/0583/0585 ACCESSICE IE. AP5010379	
AUTHORS: Publicity, B. D.; Dolopolosis, B. A. (Academician); Kornor, V. A.; Lobach, H. I.; Tinyabova, Yo. I.; Isback, V. A.  TITLE: Stoneoappoistic polymorization of butadiene by catalytic systems based on the  ### ### ############################	•
TOPIC TAGS: polymerization, butadiene, stereospacificity, nickel organic compound,  quality t  ARSTRACT: The stereospecific catalytic offect of bis-(N-crotyl) complexes of nickel  ARSTRACT: The stereospecific catalytic offect and compared with the effect of	
in the polymerization of butadiene was investigated and compared with the in the polymerization of butadiene was investigated by treating bis-(\( \pi\)-credyl)-Ni with \( \pi\)-allyl-Ni. complexes. The catalyst was obtained by treating bis-(\( \pi\)-credyl)-Ni with \( \pi\)-allyl-Ni. depression of 1:2. It was found that the catalysts cause the formation of Ni-harings, and that the more in the polybutadiene, consisting rainly (up to 95%) of cis-1,4-rings, and that the more offective catalysts form in the presence of TiOl4. The bis-(\( \pi\)-allyl-nickel-offective catalysts form in the presence of TiOl4. The bis-(\( \pi\)-allyl-nickel-is equal to that of trans-rings, with the formation of 1, 2-rings being negligibles is equal to that of trans-rings, with the formation of 1, 2-rings being negligibles is equal to that of trans-rings, with the formation of 1, 2-rings being negligibles and to bis-(\( \pi\)-aretyl-is allyl-nickel-broade and to bis-(\( \pi\)-aretyl-is allyl-is allyl-nickel-broade and to bis-(\( \pi\)-aretyl-is allyl-is allyl-is allyl-is allyl-is allyl-	
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	L.57011-65  ACCESSION FR: AP5010579  nickel-chloride increased the entalytic activity and altered the stereospecificity.  All of the polybutedienes formed contained up to 92% cis-1, 4-rings. The structure of the polymer was practically independent of the nature of the motal halide. Orig.	
	ASSOCIATION: Vaccoyumny nauchno-isoledovatel'skiy institut sinteticheskogo kauchis im. S. V. Lebedova (All-Union Research Institute for Synthetic Rubber); Institut Potrochemical Synthesis; Asademy of Solences, SSSR)  SUBMITTED: 3030v64  ENGL: 00  SUB CODE: 00	
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A	APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R00:	1961920009-4"



זי הסואם-פי TJL(C) ACC NRI AP6030973 SOURCE CODE: UR/0181/66/008/009/2755/2761 AUTHOR: Yakovlev ... V. ORG: Volgograd Pedagogical Institute im. A. S. Serafimovich (Volgogradskiy pedagogicheskiy institut) TITLE: Temperature dependence of light-absorption coefficient of semiconductors in a quantized electric field SOURCE: Fizika tverdogo tela, v. 8, no. 9, 1966, 2755-2761 TOPIC TAGS: temperature dependence, light absorption, absorption coefficient, semiconductor, electric field, p type semiconductor, extrinsic semiconductor ABSTRACT: The author presents calculations of temperature and frequency dependences of the light-absorption coefficient of extrinsic p-type semiconductors in a quantized electrical field. Orig. art. has: 29 formulas. [Based on author's abstract] SUB CODE: 20/ SUBM DATE: 13Nov65/ ORIG REF: 007/OTH REF: 00C/

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961920009-4"

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KLYACHKIN, L.M.; KATAUSHENKO, R.N.; YAKOVIEV, V.A.; GRIB, V.P.

Changes in the hemodynamics in Jiro disease. Vest. AMI SER.
18 no.10:9-15 '63. (MIRA 17:6)

1. Voyenno-meditsinsksya ordena Lanina akademiya imani Kirova.

YAKOVLEV. Valentin Aleksendrovich; MAYSHEVA, Nateliya Ivanovna; MALKIN, I.I., red.izd-va; ALADOVA, Ye.I., tekhn.red.

[Plain and reinforced concrete] Beton und Eisenbeton. Moskva, Ugletelchizdat. [In German] No.2. 1957. 61 p. (MIRA 12:5) (Concrete)

YAKOVLEV, V.A., Cand Vet Sci -- (diss) "Effect of paranephral morrow paranephral course of secondary disturbances of the motor function of the Kazan', 1959. 17 pp (Ein of Agr
USSR. Kazan' State Vet Inst im H.E. Bauman). 150 copies

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BADAR'YAN, G.G.; TYUTIN, V.A.; CHEREFUSHKTI, S.D.; ZUZIK, D.T.;

KHODASEVICH, B.G.; FRAYER, S.V.; GUSAROV, Ye.I.; KAZANSKIY,

A.M.; KASSIROV, L.N.; KARAYEV, S.A.; APRAYOV, V.A.;

VASIL'YEV, N.V.; BUGAYEV, N.F.; SAPIL'NIKOV, N.G.; KASTORIN,

A.A.; RUDNIKOV, V.N.; YAKOVLEY, V.A.; PEREMYKIN, V.I.;

ISAYEV, A.P.; KUZ'MICHEV, N.N.; IL'IN, S.A.; PRONIN, V.A.;

LUK'YANOV, A.D.; SHAKHOV, Ya.K.; IL'ICHEV, A.K., kand. sel'
khoz. nauk; KOGAN, A.Ya.; TSYNKOV, M.Yu.; BABIY, L.T.;

GORBUNOV, I.I.; KOVALEV, A.M.; ROMANCHENKO, G.R.; BRODSKAYA,

M.L., red.; IVANOVA, A.N., red.; GUREVICH, M.M., tekhm. red.;

TRUKHINA, O.N., tekhm. red.

[Economics of agriculture] Ekonomika sotsialisticheskogo sel'skogo khoziaistva; kurs lektsii. Moskva, Sel'khozizdat, 1962. 710 p. (MIRA 15:10)

(Agriculture—Economic aspects)

BIGLER, M.S.; SHARYGINA, L.I.; KASPAROVA, A.B.; YAKOVLEV, V.A.; GRINEVICH, N.N.; YUDINA, A.P.; SEMICHENKO, N.P.; STOLYAROV, A.I.; FURSOVA, T.A.; KOZLOV, I.D., red.; SERPOKRYL, S.M., red.

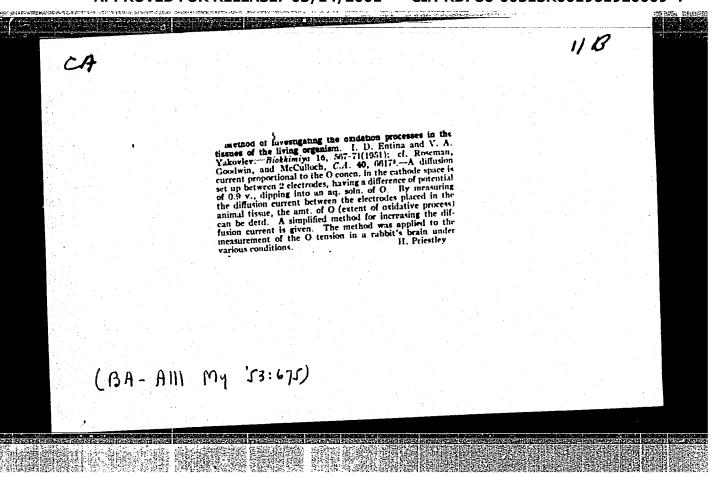
[Leningrad and Leningrad Province in figures; a statistical abstract] Leningrad i Leningradskaia oblast' v tsifrakh; statisticheskii sbornik. Leningrad, Lenizdat, 1964. 250 p. (MIRA 18:1)

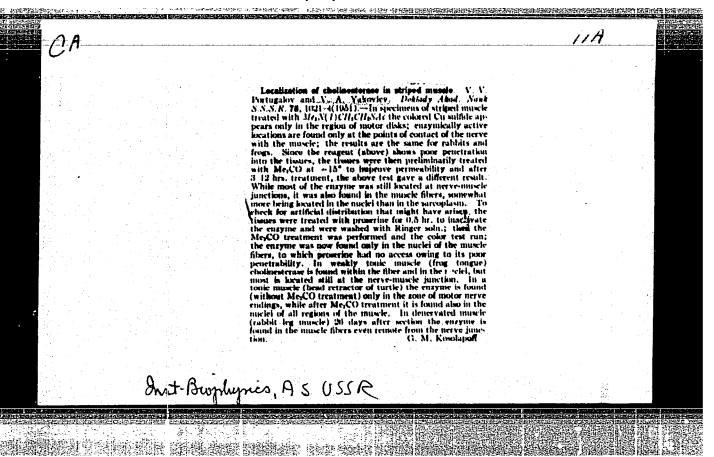
1. Leningrad (Province) Statisticheskoye oblastnoye upravlenive. 2. Statisticheskoye upravleniye goroda Leningrada (for
Bigler, Sharygina, Kasparova, Yakovlev, Grinevich, Yudina).
3. Statisticheskoye upravleniye Leningradskoy oblasti (for
Semichenko, Stolyarov, Fursova). 4. Nachal'nik Statisticheskogo upravleniya goroda Leningrada (for Kozlov).

BIGLER, M.S.; SHARYGINA, L.I.; KASPAROVA, A.B.; YAKOVLEV, V.A.; GRINEVICH, N.N.; YUDINA, A.P.; SEMICHENKO, N.P.; STOLYAROV, A.I.; FURSOVA, T.A.; KOZLOV, I.D., red.; SERPOKRYL, S.M., red.

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1. Leningrad. Statisticheskoye upravleniye. 2. Statisticheskoye upravleniye Leningrada (for Kowlov, Sharygina, Kasparova, Yakovlev, Grinevich, Yudina). 3. Statisticheskoye upravleniye Leningradskoy oblasti (for Semichenko, Stolyarov, Fursova).

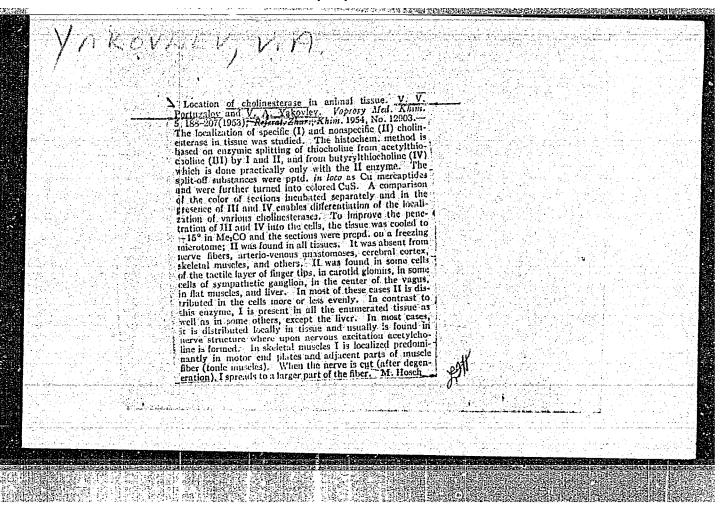




- 1. ALEKSAKHINA, N. V., YAKOVLEV, V. A.
- 2. USSR (600)
- 4. Demianovskii, S. IA.
- "Course in organic and biological chemistry." S. IA. Demianovskii. Reviewed by N. V. Aleksakhina, V. A. Yakovlev. Biokhimiia 17, no. 6, 1952.

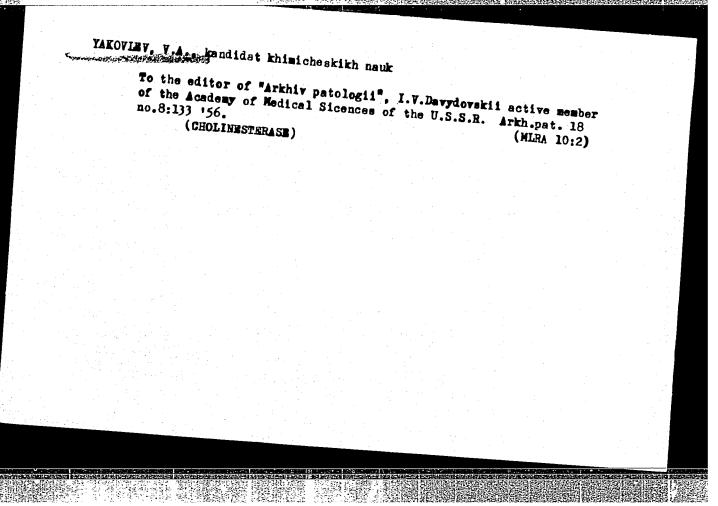
9. Monthly List of Russian Accessions, Library of Congress, March 1953. Unclassified.

	up-to-date accounts of a number of blochem problems in a comparatively popular form, has made many grave errors. Particularly, he says, Goste is wrong in regard to the significance of optically active compds for heterotropic organisms. Book was published by Acad Med Sci USSR, 1951, 163 pp, 10,000 copies, 11 rubles 10 kopecks.	nistry are co	materialism and on the teachings of Michurin an Lysenko. According to Yakovlev, the scientific level of the book, however, as far as chemistry	According to Yakovlev, this book is because 5 yrs have passed since the any book in the biochemistry of bac states that V. S. Gostev has attempt biol and chem aspects of bacteriological states.	ples of Medical Bacteriology, "Y. A. Yak"Mikrobiologiya" Vol 21, No 5, pp 617-620	USSR/Biology - Microbiology "Review of V. S. Gostev's B	4 1	
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YAKOVLEV, V.A. USSR/Biology - Biochemistry Card 1/1 Pub. 22 - 33/51 Authors Yakovlev, V. A., and Sokolovskiy, V. V. Title Histochemical investigation of the localization of thiol compounds having Periodical : Dok. AN SSSR 101/2,321-324, Mar 11, 1955 Abstract A new histochemical method for the discovery of SH-groups (serum hepatitis) in tissues of animal organisms is described. The participation of thiol compounds in many biochemical processes in animal organisms is explained. Twelve references: 6 USA, 4 USSR, 1 French and 1 Indian (1921-1952). Graph; illustrations. Institution: Presented by: Academician L. A. Orbeli, November 17, 1954

AKOVLEV, V.A. Medicine - Histology Card 1/1 Pub. 22 - 42/46 Authors Portugalov, V. V., and Yakovlev, V. A. Title Distribution of succino-dehydrogenase in the sensory and motor nerve Periodical Dok. AN SSSR 103/1, 157-160, Jul 1, 1955 Abstract Experiments were conducted on the tissue of cats that were in a state of narcosis to determine the distribution of succino-dehydrogenase in the sensory and motor extremities of nerves. Results are described. Eleven references: 8 USA, 1 Eng., and 2 Germ. (1934-1953). Illustrations. Institution: Acad. of Med. Sc., USSR, Inst. of the Brain Presented by: Academician L. A. Orbeli, February 25, 1955



Content and localization of sulfhydryl groups in different regions of cat brain [with summary in English]. Vop.med.khim. 3 no.2:

(MERA 10:7)

1. Institut mozga AMN SSSR, Moskya.

(SULFHYRYL COMPCUEDS, determ.

in brain of cats, distribution & content (Rus))

(BRAIM, metab.

sulfhydryl cpds., distribution & content in cats (Rus))

YAKOVLEY, V.A., TORCHINSKIY, Yu.M.

Ultramicromethod for quantitative determination of thiol compounds in tissues [with summary in English]. Biokhimia 23 no.5:755-759 S-0 '58 (MIRA 11:11)

1. Laboratoriya gistokhimii Instituta mosga AMN SSSR, Moskva (SULFHYDRYL COMPOUEDS, determ.
in micro- & ultramicro-lytic tissues (Rus))

PORTUGALOV, V.V.; TSVETKOVA, I.V.; YAKOVLEV, V.A.

Localization of protein metabolism in the microstructures of the central nervous system. TSitologia 1 no.4:422-430 (MIRA 12:10)

1. Laboratoriya gistokhimii Instituta mozga AMN SSSR, Moskva.
(PROTEIN METABOLISM) (BRAIN)

17(3)

AUTHORS:

sov/20-128-4-58/65 Yakovlev, V. A. Volkova, R. I.

TITLE:

The Kinetics of Interaction Between Choline Esterase and

PERIODICAL:

Doklady Akademii nauk ESSR, 1959, Vol 128, Nr 4, pp 843-846

ABSTRACT:

The interaction of organophosphorous compounds (OPC) with active centers of choline esterase (ChE) represents an irreversible bimolecular reaction (Refs 1, 2). For the computation of the velocity constant K2 of the latter it is

therefore necessary, to measure the absolute quantities of the concentrations of ferment and inhibitor in the course of the interaction. This measurement is difficult because of the insufficiency of the ferment in the individual stages. The OPC-concentration which completely stops the activity of the ferment under experimental conditions, is very low (10<sup>-6</sup> - 10<sup>-8</sup> M). Therefore it cannot be determined by means

of the usual analytic methods. The authors are thus faced by two tasks: a) method of investigating the kinetics, based upon the activity reduction of ChE during the interaction

Card 1/4

The Kinetics of Interaction Between Choline Esterase and Irreversible

with OPC, and b) methods of an experimental concentration determination of active ChE centers in preparations which do not represent individual ferments. The present paper is devoted to the solution of these two problems. The solution of problem a) seems possible by choosing conditions under which the concentration of one component, used in excess, may be considered as being constant. As is known, constant K2 in this case may be determined on the basis of an equation of the reaction kinetics of the first order (1). This equation is transformed into (2) and (3). The experimental conditions may be chosen in such a way that the activity of ferment A is proportional to the concentration of the active centers. The method applied up to now by several investigators (e.g. Refs 3, 4), shows several shortcomings. In order to do away with them, the authors investigated the interaction kinetics of ChE and OPC by continually measuring the gradually decreasing ChE activity in the course of the ChE interaction with the inhibitor. Since in this case the inhibition processes of the ferment were combined with the measurement of the ac-

Card 2/4

The Kinetics of Interaction Between Choline Esterase and Irreversible Inhibitors

tivity, acetylcholine (AcCh) has to be added. The ferment used was a dry ChE preparation from the serum of horse blood, purified 40 times, and the inhibitor used was armine (ethylparanitrophenyl-ester of ethylphosphinic acid, Ref 5). Its concentration was 40 times stronger than necessary for a 100 per cent inhibition. pH was  $7 \pm 0.05$ , the temperature was  $40 \pm 0.05$ . In the control experiments (without armine), Acch decomposed according to the reaction type "zero" (Fig 1:1). It was possible to express the ChE activity by the tangent of  $\alpha_1$ , the angle of the line-inclination. The interaction constants of armine and ChE were computed from the graphically determined values of the original activity A and the residual activity A, by means of equation 3. With an inhibitor excess, K2 remains satisfactorily constant during the entire reaction. It was proved that the value of K, depends on the Acch concentration. This becomes clear due to the concept regarding the competition between the substrate and the ferment inhibitor for the active center. Figure 2 graphically

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The Kinetics of Interaction Between Choline Esterase and Irreversible

gives the results of more detailed experiments on the dependence K<sub>2</sub> = f(C<sub>AcCh</sub>). Hence this dependence in comparatively low Acch concentrations is rather approximated to a linear dependence. K2 was therefore extrapolated to the zero concentration of AcCh, for the purpose of determining  $\mathbf{K}_2$  of the reaction between armine and ChE without a substrate (equation 5). K2 was also determined by an independent method (equation 7). On the whole the results obtained by the two determination methods showed good agreement. This confirms the correctness of the concepts on which they are based, on the interaction mechanism between irreversible inhibitors and active centers of ChE. There are 3 figures and 8 references, 3 of which are Soviet.

ASSOCIATION: Institut evolyutsionnoy fiziologii im. I.M. Sechencva Akademii nauk SSSR (Institute of Evolution Physiology imeni I.M. Sechenov

of the Academy of Sciences, USSR) PRESENTED:

April 2, 1959, by M. I. Kabachnik, Academician April 2, 1959 SUBMITTED:

Card 4/4

YAKOVLEV, V. A., TITOVA, L. K., BRONSHTEYN, A. A., VINNIKOV, YA. A.

"The Localization and Distribution of the 'Total' Protein and its Funcational (SH, -SS-, COOH) Groups in Corti's Organ Under Conditions of Relative Rest and in a State of Excitation."

report submitted for the First Conference on the problems of Cyto and Histochemistry, Moscow, 19-21 Dec 1960.

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MASTRIMGOTA, T. A., ROZHKOVA, YE. K., FRUYENTOV, N. K., MIRHSISON, M. YA.,
KABACHNIK, M. I. (USSR)

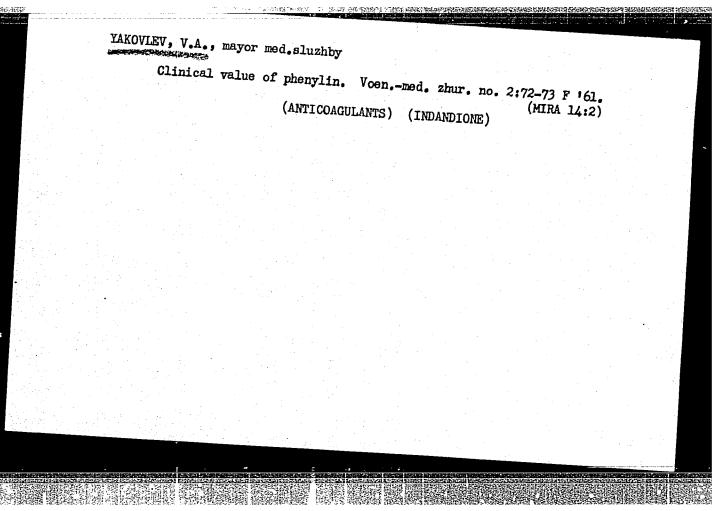
"The Significance of Onic Group and of its Position in an Mith Cholinesterase Substance Molecule for its Inter-action with Cholinesterases and for Pharmacologic Effects."

Report presented at the 5th International Biochemistry Congress,
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"The I vestigation of the Active Site of Cholinesterases by Means of Organo-Evolutionary Physiology im I.M. Sechenov, AS USSR.

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APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961920009-4"



VOLKOVA, R.I.; GODOVIKOV, N.N.; KABACHNIK, M.I.; MAGAZANIK, L.G.;
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Chemical structure and biological activity of phosphorus organic cholinesterase inhibitors. Vop. med. khim. 7 no.3:
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(CHOLINESTERASES)
(PHOSPHORUS ORGANIC COMPOUNDS)

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Localization and cytochemical characteristics of proteins of the hair cells of Corti's organ during a state of relative rest and during acoustic stimulation. Dokl. AN SSSR 136 no.2:456-459 '61.

1. Institut evolyutsionnoy fiziologii imeni I.M. Sechenova Akademii nauk SSSR. Predstavleno akademikom I.I. Shmal'gauzenom.

(PROTEINS IN THE BODY)

(SOUND—PHYSIOLOGICAL EFFECT)
(LABYRINTH (EAR))

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Model studies on the action of esterases. Dokl.AN SSSR 137 no.6: 1467-1469 Ap 161. (MIRA 14:4)

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Anticholinesterase activity of the oxidation products of dithiophosphoric acid (M-74) esters. Biokhimiia 27 no.3:481-486 My-Je '62. (MIRA 15:8)

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BRIK, I.L.; MAKOVLEV, V.A.

Comparative study of the properties of cholinesterages of the nervous system in vertebrates and insects. Biokhimia 27 no.6:993-1003 N-D '62. (MIRA 17:5)

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Study of the active centers of cholinesterases with the aid of organophosphorus inhibitors. Dokl. AN SSSR 146 no.1:217-220 S 162. (MIRA 15:9)

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YAKOVLEV, V.A., doktor khim. nauk

General problems of chemistry and biology; a conference on the mechanism and kinetics of enzymatic catalysis. Vest. AN SSSR 33 no.5:112-114 My '63. (MIRA 16:6)

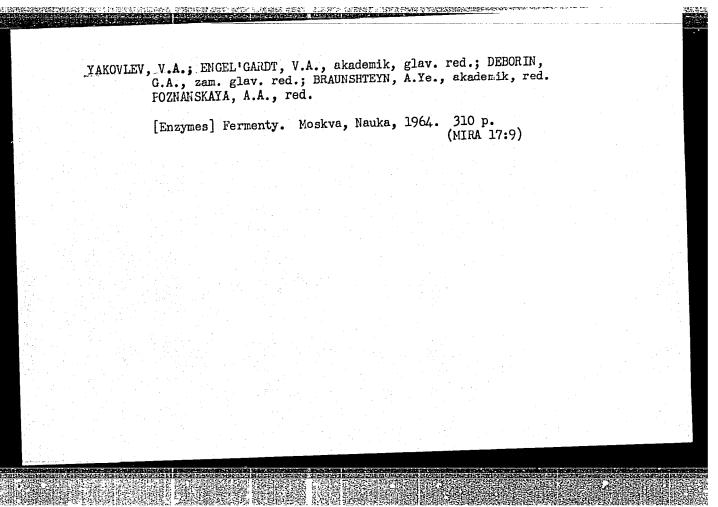
(Catalysis) (Ensymes)

GODOVIKOV, N.N.; GODYNA, Ye.I.; KABACHNIK, M.I., ekademik; MIKHEL'SON, M.Ye.; ROZENGART, Ye.V.; YAKOVLEV, V.A.

Anticholinesterase properties of some O-ethyl-S-alkylmethyl thiophosphinates. Dokl. AN SSSR 151 no.5:1104-1107 Ag 163.

1. Institut elementoorganicheskikh soyedineniy AN SSSR i Institut evolyutsionnoy fiziologii im. I.M.Sechenova AN SSSR.

(Cholinesterases) (PhospMinic acid)



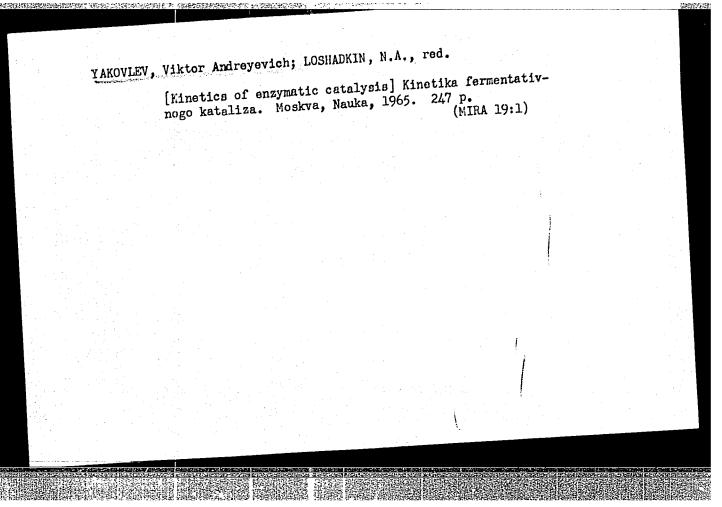
BRAUNSHTEYN, A.Ye., red.; YAKOVLEV, V.A., red.

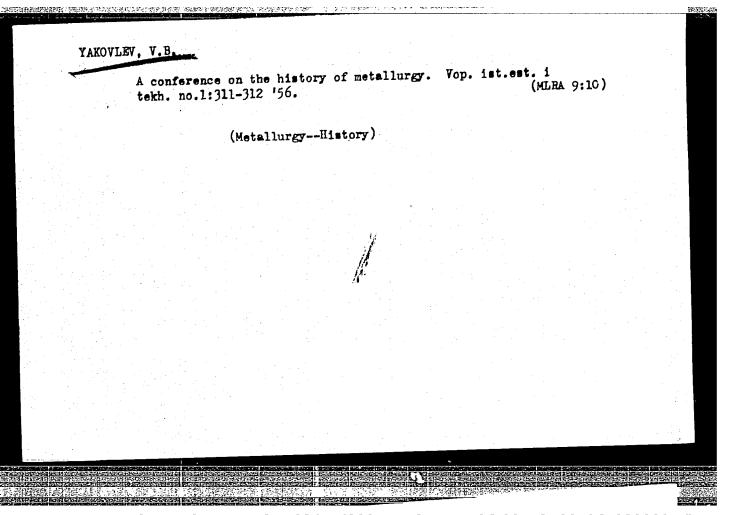
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1. Nauchnaya konferentsiya posvyashchennaya problemam mekhanizma deystviya i kinetili fermentativnogo kataliza, Moscow, 1963. 2. Institut khimicheskov fiziki AN SSSR i Institut radiatsionnoy i fiziko-khimicheskov biologii AN SSSR (for Yakovlev).

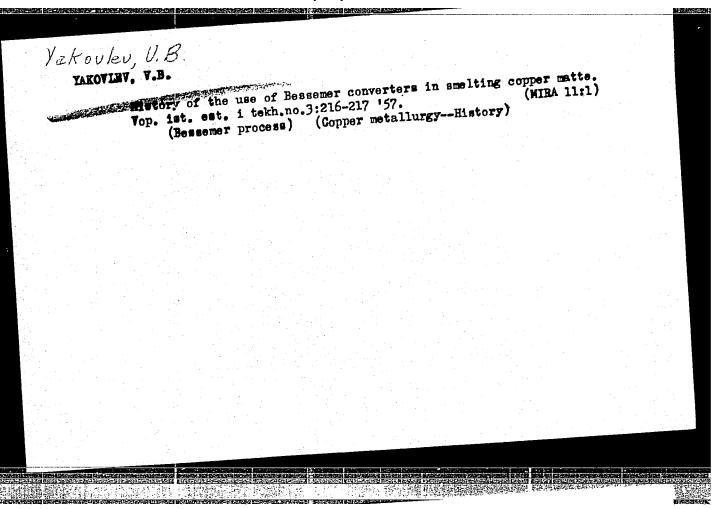
EWT(1)/EWA(j)/EWA(b)-2 BW/RO L 1706-66 UR/0218/65/030/004/0875/0879 ACCESSION NR: AP5021652 AUTHOR: Grigor'yeva, G. M.; Yakovlev, V. A. TITLE: Thermodynamic characteristics of the interaction of choline esterases and tetrallkyl ammonium ions SOURCE: Biokhimiya, v. 30, no. 4, 1965, 875-879 TOPIC TAGS: enzyme, entropy, enthalphy, thermodynamics, ammonia compound, biochemistry ABSTRACT: A study was made of the temperature dependence of the inhibition constant of tetraethyl ammonium and tetramethyl ammonium with choline esterase from horse serum and acetyl choline esterase from erythrocytes. It was found that the interaction of the ions of tetrallkyl ammonium with the anionic center of the active surface of a choline esterase is accompaned by a significant change in enthalphy and entropy. In the cases investigated, change in the enthalphy  $\Delta H$ varied from 8.2 to 12.8 kcal/mole and change in the entropy  $\Delta S$  varied from 14 to 2 9cal/mole/degree. This permits the assumption that formation of the structure of the enzyme inhibitor is accompanied by structural changes in the

enzyme active surface. The anionic center evidently has not only a basic value enzyme active surface. The anionic center evidently has not only a basic value but also depends on the reaction with the substrate of the active center of the but also depends on the reaction with the substrate of the active center of the but also depends on the reaction with the substrate of the active center of the but also depends on the reaction with the substrate of the active center of the but also depends on the reaction with the substrate of the active center of the but also depends on the substrate of the active center of the but also depends on the substrate of the active center of the but also depends on the substrate of the active center of the but also depends on the substrate of the active center of the but also depends on the substrate of the active center of the but also depends on the substrate of the active center of the but also depends on the substrate of the active center of the but also depends on the substrate of the active center of the but also depends on the substrate of the active center of the but also depends on the substrate of the active center of the but also depends on the substrate of the active center of the but also depends on the substrate of the active center of the active ce	, 1706-66 ACCESSION NR	: AP5021652		has not only a basic value	1
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	45-47 As	t of the pro 57. (IronMeta	llurgy)	(Metallure)	/HIBVOLY /		



#### CIA-RDP86-00513R001961920009-4 "APPROVED FOR RELEASE: 03/14/2001

SOV /137-58-7-13980

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 7, p 2 (USSR)

Yakovlev, V. B. AUTHOR:

The Origin of the Puddling Conversion of Pig Iron (K voprosu o

vozniknovenii krichnogo peredela chuguna) TITLE:

PERIODICAL: V sb.; Vopr. istorii yestestvozn. i tekhn. Nr 5. Moscow, AN SSSR, 1957, pp 150-155

The history of the development of conversion methods of Fe ABSTRACT:

is examined.

P. N.

2. Iron--Processing 1. Iron--History

Card 1/1

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AUTHOR: Yakovlev, V.B.

TITLE: The Emergence of Iron-Making (Vozniknoveniye proizvodstva zheleza)

PERIODICAL: Metallurg, 1957, Nr 7, pp.41-43 (USSR)

ABSTRACT: Account of iron making from the earliest times to the beginning of predominance of the blast furnace. Illustrations of primitive methods and some constructional details are given. There are 6 figures.

AVAILABLE: Library of Congress.

YAKOVLEY, V.B

130-8-20/20

Development of the Production of Ball Iron (Razvitiye AUTHOR: Yakovlev, V.B.

proizvodstva svarochnogo zheleza) TITIE:

PERIODICAL: Metallurg, 1957, No.8, pp. 45 - 47 (USSR) The author traces the development of iron-making methods

giving a non-liquid product and of ways for further treatment ABSTRACT:

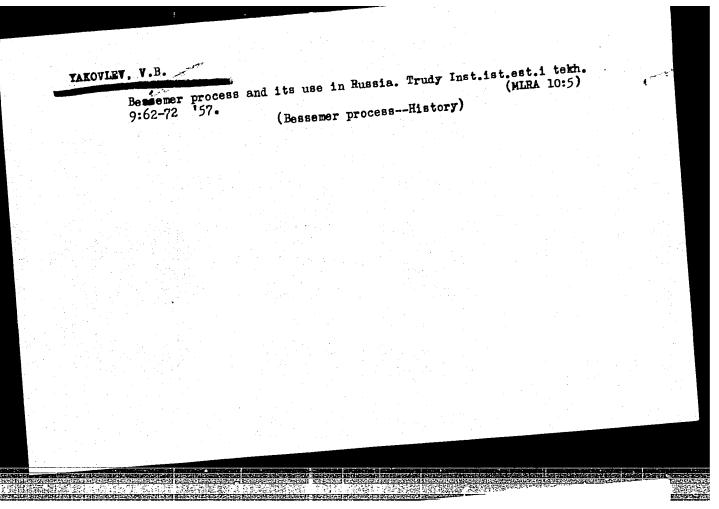
of such products. He gives illustrations of some of the

plant used.

There are 4 figures.

Library of congress. AVAILABIE:

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AUTHOR: Yakovlev, V. B.

TITLE: From wrought iron to cast steel. (Ot svarochnogo zheleza k litoy stali).

PERIODICAL: Metallurg, 1958, No.3, pp. 36-38 (USSR)

ABSTRACT: This is a historical article on iron— and steel-making from ancient times to the adoption of the Bessener from ancient processes. The emphasis is on developments in the Russian empire.

AVAILABLE: Library of Congress.

Card 1/1

AUTHOR: Yakovlev, V.B.

TITIE: P.M. Obukhov

PERIODICAL: Metallurg, 1958, Nr 4, pp 33 - 34 (USSR)

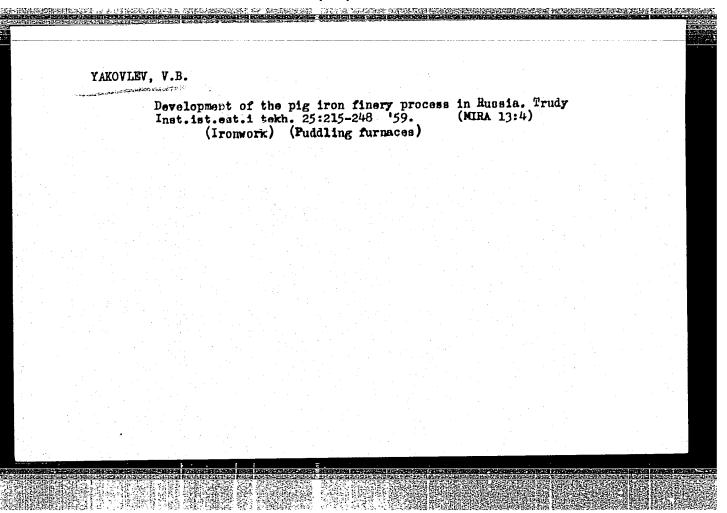
PERIODICAL: Metallurg, 1958, Nr 4, pp 35 - 34 (USSR)

ABSTRACT: This is a historical sketch of the life and work of the window (1820 - 1869). He specialised in steel-casting Obukhov (1820 - 1869). He specialised in steel-casting production and the article gives compositions of charges production and the article gives compositions of cast steels.

Card 1/1

YAKOVLEV, V. B. Cand Tech Sci -- (diss) "Development of methods of production of wrought iron in the USSR." Mos. 1959. 15 pp (Acad Sci USSR. Inst of History of Natural Science and Technology), 150 copies (KL, 43-59, 126)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961920009-4"



YAKOVLEV, Vladlen Borisovich; POGODIN, S.A., prof., zasluzhennyy deyatelinauki i tekhniki RSFSR, otv.red.; BEKASOVA, L.M., red.izd-va; GUS'KOVA, O.M., tekhn.red.

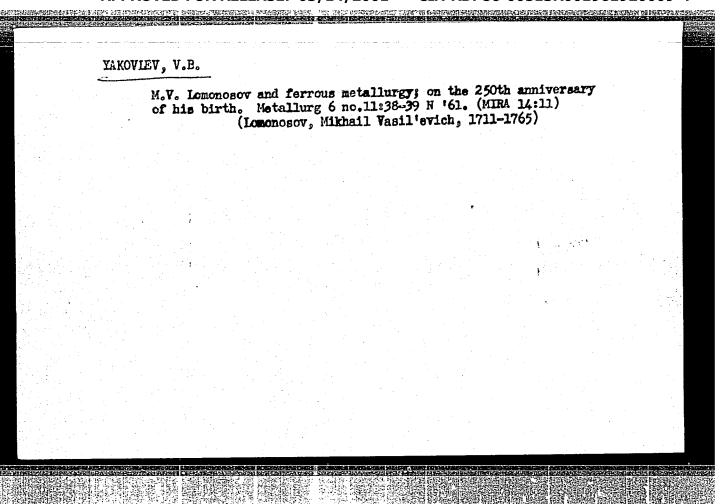
[Development of methods of producing wrought iron] Rezvitie sposobov proizvodstva svarochnogo zheleza v Rossii. Moskva.

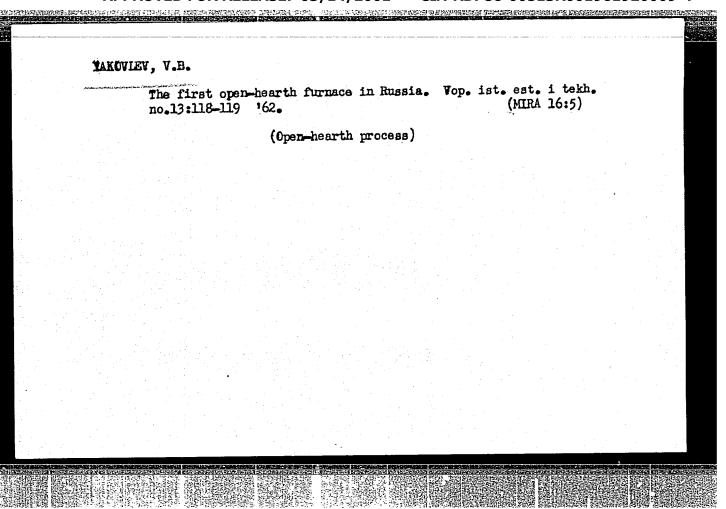
Izd-vo Akad.nauk SSSR, 1960. 217 p. (MIRA 14:2)

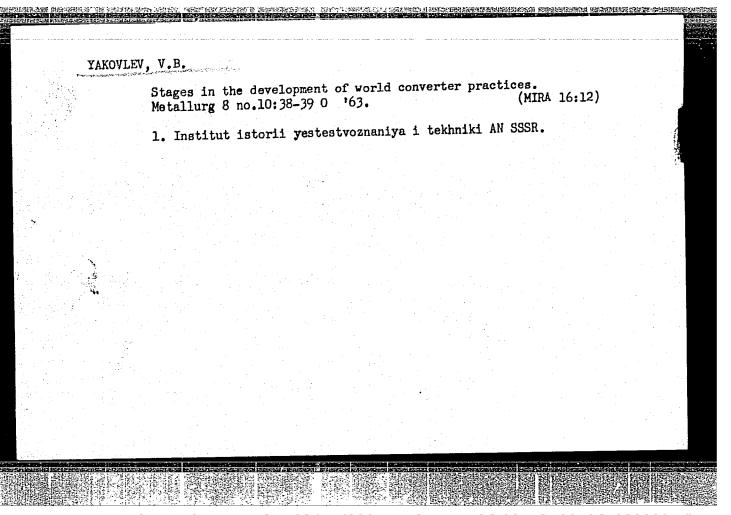
(Wrought iron)

YEREMEYEVA, S.I.; YAKOVLEV, V.B.; CHESNOVA, L.V.; SHLYKOVA, S.A.; KOZLOV, S.G.; KHRENOV, K.K. (Kiyev); TIGRANYAN, S.T. (Yerevan); KROTIKOV, V.A. (Leningrad)

In the Soviet National Association of Historians of Science and Technology. Vop.ist.est.i tekh. no.10:180-187 '60. (MIRA 14:3) (Scientific societies)







BUTUSOV, Ivan Vasil'yevich; YAKOVLEV, V.B., nauchm. red.; RUCKOVA, L.Ya., ved. red.

[Digital systems for automatic control, measurements and regulation] TSifrovye ustroistva dlia avtomaticheskogo kontrolla, izmereniia i upravleniia. Leningrad, Nedra, 1964. 374 p. (MIRA 17:9)

VAVILOV, A.A.; VERKHOLAT, M.Ye.; RUBASHKIN, I.B.; Prinimali uchastiye: YAKOVLEV, V.B.; Prinimali uchastiye: YAKOVLEV, V.B.; Prinimali uchastiye: nauk, retsenzent

[Actuating electromechanical servosystems for copying milling machines] Silovye elektromekhanicheskie slediashchie sistemy kopiroval'no-frezernykh stankov. Moskva, Mashinostroenie, 1964. 406 p. (MIRA 18:2)

L 3280-66

ACCESSION NR: AR5014342

UR/0271/65/000/005/A003/A003

62-5:519.25 (002)

SOURCE: Ref. zh. Avtomatika, telemekhanika i vychislitel'naya tekhnika.

Svodnyy tom, Abs. 5A19

AUTHOR: Vavilov, A. V.; Yakovley, V. B.

TITLE: Log-frequency diagrams of discrete systems

CITED SOURCE: Izv. Leningr. elektrotekhn. in-ta, vyp. 53, 1964, 319-335

TOPIC TAGS: discrete system

TRANSLATION: Methods are considered of approximate plotting of log-frequency diagrams (LFD) for purposes of calculating discrete systems; the diagrams are constructed either from a sum of two LFD's (LF and HF) or by substituting an equivalent delay for a short time constant. The above methods ensure good agreement of these diagrams with the exact LFD's of discrete systems constructed on the basis of the total sum of all terms of the expansion. Formulas and characteristics are obtained which permit plotting PAM discrete-system

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L 3280-66 ACCESSION NR: AR5014342		
LFD's with a duty factor of & with & = 1. It is demonstrated LFD, when the principle of equipment construction of a PAM-system above methods is illustrated by	i that the construction of a PD divalent areas is observed, doe LFD with a duty factor 3 < 1.	M discrete-system
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PO-4/Pq-4/Pf-4/Pg-4/Pae-2/Pu-4/Pk-4/Pl-4 IJP(c) WW/EC

ACCESSION NR: AP5013839 UR/0103/65/026/005/0823/0831
62-504.1.001.24

AUTHOR: Vavilov, A. A. (Leningrad); Yakovlev, V. B. (Leningrad)

TITLE: Approximate methods of constructing logarithmic frequency characteristics of delay-type sampled-data systems

SOURCE: Avtomatika i telemekhanika, v. 26, no. 5, 1965, 823-831

TOPIC TAGS: automatic control, automatic control design, automatic control system, automatic control theory, sampled data system

ABSTRACT: A method is proposed for constructing log frequency characteristics which is based on two (h-f and l-f) characteristics or on replacement of small time constants by equivalent delays. The transfer function of a sampled-data system is found by a modified z-transform method. Formulas for the complex transfer factors are developed. Formulas for calculating the approximate log frequency characteristics, with an allowance for the duty factor of the sampling unit, are derived. The method basically developed for PAM systems is also applicable to PDM systems whose duty factor Y > 1. Orig. art. has: 4 figures and 41 formulas.

Card 1/2

L 58556-65
ACCESSION MR: AP5013839

ASSOCIATION: none

SUBMITTED: 09Apr64

ENCL: CO SUB CODE: DP. IE

NO REF SOV: COS

OTHER: CO2

TAKOVIEV, V.C., vitse-admiral

Defense of dissertations, an important element in the training of scientific cadres of the navy. Mor. abor. 48 no.7:35-41 Jl '65. (MIRA 18:8)

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- 2. USSR (600)
- 4. Seed Industry
- 7. Accounting, control and registration of high-grade seeds. Sel. i sen. 20, No. 4, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

YAKOVL	.V, 7. D.,	
	"Conference of the East European Region Countries on Problems of the Determination of Time, Longitude and Latitude," Mczhdunarodnyy Geofizicheskiy God - Informatsionnyy Byulleten' / IGY - Information Bulletin/ No. 4, Moscow, 1958; pp. 105-107.	
	(Translation - 9030844) (JPRS/NY-L-236, 30 June1958)	

TAKOVIE V, V.F.; DUMOV, P.D., inzh., retsenzent; KRASKOVSKIY, Ye.Ia., kand. tekhn. nauk, red.; DENINA, I.A., red. izd-va; BARDINA, A.A., tekhn. red.

[Measurement of strains and stresses in machine parts]
Izmereniia deformatsii i napriazhenii detalei mashin.
Izd.2., ispr. i perer. Moskva, Mashglz, 1963. 191 p.

(MIRA 16:11)

(Strains and stresses)

AMELIN, S.V., prof., dektor tekhn.mauk (Leningrad); YAKOVLEV, V.F., dektor tekhn.mauk (Leningrad); SFMENOV, I.I., kand.tekhn.mauk (Leningrad); FROLOV, L.N., inzh. (Leningrad)

Frogs with movable parts. Zhel.dor.transp. 47 no.12:51-55 D '65. (MIRA 18:12)

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YAKOVIEV, V. F.

USSR/Physics

Card 1/1

Authors

Yakovlev, V. F; Koshkin, N. I., and Nozdrev, V. F.

Title

Use of the impulse method in the study of ultra-sound adsorption in benzene and some of its halogen derivatives close to their splidification point.

Periodical

Dokl. AN SSSR 96, Ed. 2., 273 - 276, May 1954

Abstract

Report describes an impulse ultrasonic arrangement and the method of measuring the absorption in benzene and some of its halogen derivatives. This installation was successfully used for measuring the absorption close to solidification point. Results obtained through measuring the absorption of ultra sound in benzene, chlorobenzene and bromobenzene close to their solidification point are included. Six references; 4 USSR since 1949. Table, Graphs.

Institution

The Moscow Regional Pedagogical Institute

Presented by

Academician V. V. Shuleykin, March 22, 1954

YAKOVLEV, V. F.

"The Theory of Investigation Into the Absorption and Velocity of Propagation of Ultrasonic Waves by the Impulse Method", a report presented at a conference of professors and teachers of the institutes of the Ministry of Education RSFSR and published in the "Application of Ultrasonics to the Investigation of Substances", Moscow, 1955.

YAKOVLEV, V. F., SOBOLEV, V. D., NOZDREV, V. F., KOSHKIN, N. I. and SHIRKEVICH, M. G.

"Impulse Method of Fixed Distances, Its Fhusical Basis and Fractical Application." Abstracted for inclusion in the Second international Congress on Acoustics, Cambridge, Mass., 17-24, Jun 1956

Moscow State University

YARONIEN, U.F.

USSR/Acoustics - Ultrasonics, J-4

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 35575

Koshkin, N. I., Nozdrev, V. F., Sobolev, V. D., Shirkevich, M. G.,

Yakovlev, V. F.

None Institution:

> The Fixed-Distance Pulse Procedure, Its Physical Foundations, and Title:

Practical Application

Original

Periodical: Akust. zh., 1956, 2, No 2, 161-166

Abstract: A substantiation is given for a newly developed procedure for

pulse measurements of absorption of ultrasonic waves. Unlike the present widely-used procedure, in which it is necessary to move the radiator and the reflector relative to each other, the radiator and reflector remain stationary in this method. This circumstance not only simplifies to a considerable extent the construction of the

measuring chamber and accelerates the measurement process, but leads also to a more successful utilization of the pulse method in the

Card 1/2

USSR/Acoustics - Ultrasonics, J-4

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 35575

Abstract: measurement of absorption at high temperatures and at high pressures, and also at various types of phase transitions.

Results are given on the measurement of the coefficient of absorption of ultrasonic waves, performed with the fixed-distance method; the experimental data are compared with the results obtained by other methods; it is indicated that it is possible to employ the fixed-distance pulse method for control and in industry.

Card 2/2

"Investigation of Phenomena Accompanying the Propagation of Ultrasound and Methods to be used in Work in this Field: Application of Multiple Reflection in the Investigation of Liquids"

report presented at the 6th Sci. Conference on the Application of Ultrasound in the investigation of Matter, 3-7 Feb 1958, organized by Min. of Education RSFSR andd Mosvow Oblast Pedagogic Inst. im. N. K. Krupskaya.

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A TOSS/108 DISTANTION IN THE PARTY IN THE PA	Vestodstynking konferentstyn professorov i prepodavnteloy pedagogicheskih instituton	. Friestenty ulteshuttik k testedorusiya reshchestva (Utilisation of Ultrasonies for the Investigation of Matter) Moscov, 11d. MOFI, 1960. 267 p. 1,000 copies printed. (Series: Its frudy, 77p. 11)	Ed. (filtle page): V.F. Mordrov, Fracesor and B.B. Endrysteer, Professor.  Full Collection of articles is intended for physicists specialising in the physics of ultrasomd.	COTEMUE: The collection of articles coordinates the transactions of the VII Conference of the Applications of Ultraconies to the Start of Faterials, which was bell at the Masow Ollert Projected Institute head IR. Exportation, Individual articles of the collection disease various problems in the warm schalles of ultracone, the shootyticm and they projection schalles of ultracone articles are speaked for any projection schalles of ultracone articles for the speaked of some and challes for the detailention. Other writicles deal with the speaked of such and the thought of interestication of the projection of the formulation of the properties of materials. So pursocalities are accident. Reformore accounts	Utilisation of Atraonics (Cont.)  607/5307  C. Ediberdora, B.T., and B.B. Endrysteer (Moscow Oblast Pedagogical Institute from B.K. Ergelstyle), Propagation of Sound in Disperse Media	Eallymnor, B.L. (Finite Paristices of the Phase Relations of the Speed of Ultrasound From the Periodic Variations of the Phase Relations of the Account Phises 175 Kantons P.F.	Sulvaver, A.S., and B.B. Katyoriner (Indoor Solutions of Ma(103,)  Sulvaver, A.S., and B.B. Katyoriner (Indoor My solution of Ma(103,)  Ideas Halfall Institute, and Honey Calest Pedagogical Institute inent  Sine-Liquid Withers (Cont.) Programme of Unitation in Market My Survey Sines of Unitation in Market My Survey Sines of Unitation in Market My Survey Sines of Unitation Reterms 100	Ħ		Malyavin, I.G. [Mostow Collect Pringegical Institute inent F.E. Kruyskaya], Investigation of Texperature Dependence of Miding and Volumetric Viscosity of Certain Organic inguits in the Critical Region	Reals, Ye.P., and V.S. Tikhonova (Odessky politekhnichesky institut— Udesse Folytechnic]. Device for Remarks, the Intensity of an Ultruscule Field in Conducting Liquids	Perspective, J. J., and W.F. Tekenier (Noncov Chinat Pedagogical Institute tenny N.K. Erupskaya). Rainantof Frontister in Wan Der Wanis Gases. 239	Merhilor, Ld. (1271 in. V.I. Ulymore (Lenina).— Leningraf Ricctrotechnical Institute imani V.I. ulymnov (Lenin)]. Absorption of Ultrasonic and Rypar- sonic Bares in Certain Crystals	Mullatin Library of Congress (CC2hh WRS)	
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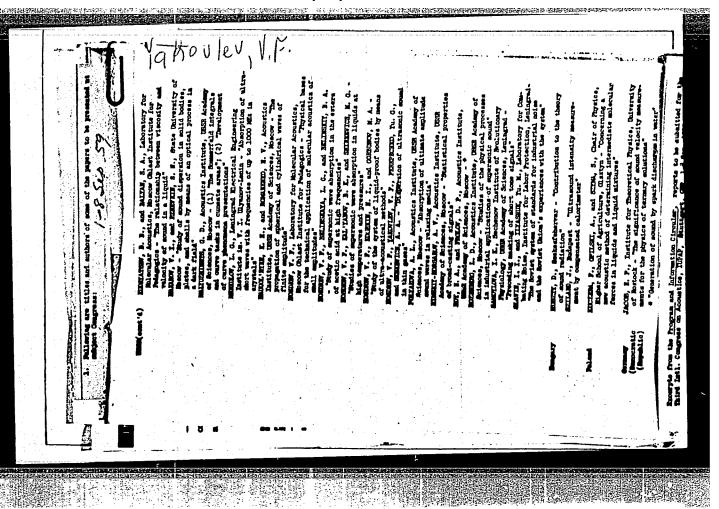
NOZDREV. V.F.; YAKOVLEV. V.F.; KOSHKIN, N.I.; GORBUNOV, M.A.

Certain new possibilities for using ultrasonic pulses for investigating substances. Izv. vys. ucheb. zav.; radictekh. no.1:35-42 (MIRA 11:4)

1. Bekomendovana kafedroy obshchey fiziki Moskovskogo oblastnogo pedagogicheskogo instituts.
(Ultrasonics) (Liquids)

"APPROVED FOR RELEASE: 03/14/2001

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YAKOVLEVI	PHASE I BOOK EXPLOITATION BOV/3352		
	Vaerouslyskaya konferentslyn, professorov i prepodavateley pedagog: cheskikh institutov.	1-	
	Primererniys ul'traskustiki k issledovaniyu weahchestva; trudy konferentali, vyp. 8 (Application of Ultrasonics in the Study of Matter; Transactions of a Conference, Mr. 8) Moscow, Ind. MOPI, 1959. 170 p. 1,000 dopies printed.		
	man wd . S. P. Zhitov.		
	PURPOSE: The book is intended for physicists, particularly those		
	COVERAGE: This is a collection of 12 articles dealing with proble of acoustics, ultrasonics, and molecular physics. References	•	
	Predvoditelev. A. S. Dispersion of Accounty		
	Zipir A.D., and V. P. Vakawlay. Pulse Method for Multiple Transformation of an Ultrasonic Signal in the Investigation of Liquid Media 63		
	Ilgunas, V., and E. Yaronis. On the Theory of Interferometers 67 With Variable and Constant Length		İ
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	Volarovich, M. P., and D. B. Relashov. Investigation of Ultrasonic Valurity in Mitrogen Under Pressures up to 1050 kg/sq om	3	
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	and Surface Tension in Ternary Educa Systems	121	
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# PHASE I BOOK EXPLOITATION

.sov/3729

Yakovlev, Vsevolod Fedorovich, and Ivan Sergeyevich Inyutin

Izmereniya napryazheniy detaley mashin (Measuring Stresses of Machine Components)
Moscow, Mashgiz 1960. 114 p. Errata slip inserted. 3,500 copies printed.

Reviewer: P.D. Dumov, Engineer; Ed.: A.M. Turichin, Candidate of Technical Sciences; Ed. of Publishing House: M.A. Chfas; Tech. Ed.: O.V. Speranskaya; Managing Ed. for Literature on Machinery Manufacturing (Leningrad Division, Mashgiz): Ye. P. Naumov, Engineer.

PURPOSE: This book is intended for engineers, technicians, and scientific workers engaged in the analysis of mechanical deformations and stresses.

COVERAGE: This is a study of methods for the experimental measuring of stresses within machine components. The bases of measuring stresses in the interior of components by means of a wire strain gauge without paper backing are given. There are examples of the experimental school of a number of problems involving conditions of linear, plane and volume stress states and static and dynamic loads.

Card 1/4

No personalities are mentioned. There are 43 references, all Soviet.  TABLE OF CONTENTS:  Preface 3  Introduction 4  Ch. I. Fundamental Methods of Experimental Stress Analysis 10  1. Polarization-optical method 10  2. X-ray method 15  3. Brittle-coating method 15  4. Grid method 17  5. Tensometering 18  6. Physical principles of the operation, working principle, and properties of wire strain gauges 19  7. Strain gauge circuit diagrams 25  8. Measuring equipment 28  Ch. II. Electrotensometric Stress Measurements Within Bodies by Means of Special Resistance Strain Gauges 30	Measuring Stresses of Machine Components		sov/3729		
Preface  Introduction  4  Ch. I. Fundamental Methods of Experimental Stress Analysis  1. Polarization-optical method  2. X-ray method  3. Brittle-coating method  4. Grid method  5. Tensometering  6. Physical principles of the operation, working principle, and properties of wire strain gauges  7. Strain gauge circuit diagrams  8. Measuring equipment  Ch. II. Electrotensometric Stress Measurements Within Bodies by Means	No personalities are mentioned. There are 43 1	references, al	l Soviet.		
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TRLESNIN, Roman Vladimirovich; YAKOVLEY, Vitaliy Fedorovich; SADIKOV,
B.A., red.; KREYS, I.G., tekhn. red.

[Course in physics; electricity] Kurs fiziki; elektrichestvo.
Moskva, Gos. uchebno-pedagog. izd-vo M-va prosv. RSFSR, 1960.
(MIRA 14:5)

(Electricity) (Magnetism)

1482 2607 24 1800

27642 S/194/61/000/002/031/039 D216/D305

**AUTHORS:** 

Zipir, A.D. and Yakovlev, V.F.

TITLE:

Experimental basis of the method of multiple echopulses for the low-frequency analysis of liquids

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioclektronika, no. 2, 1961, 12, abstract 2 E97 (V sb. Primeneniye ul'traakust. k issled. veshchestva, no. 11, M.,

1960, 107-122)

TEXT: In measurements of the absorption coefficient of ultra sound at frequencies 1 - 6 Mc/s, the following are the factors limiting the measurement accuracy: owing to weak absorption at these iting the measurement accuracy: frequencies, long acoustic paths are required; the measurements have to be made inside the ultrasonic beam at a point where its divergence is not yet noticeable; diffraction losses have to be taken into account. A pulse method of measuring the absorption coefficient in poorly absorbing liquids has been evolved which utilizes

Card 1/2

27642 S/194/61/000/002/031/039 D216/D302

Experimental basis...

multiple echo-pulses. A pulse circuitry which utilizes the existing pulse instruments is described. The duration of the transmitted acoustic pulse - 10 - 15 \mu sec, repetition frequency 150 c/s. The display at the CRO screen consists of several peaks with decreasing amplitudes. Since the pulses are reflected many times both from the reflector and from the crystal (radiator), it was necessary to establish whether the reflector repeats the pulse in the same way as the crystal. The experiment showed that the quartz is not a simple reflector, but rather a transducer of acoustical energy and this fact has been taken into account in actual measurements. Two methods of measuring the absorption coefficient by means of echo pulses are described: the measurement from the n-th pulse with varying distance and the measurement with fixed spacing between the quartz and reflector. The method has been proved using wellknown liquids (toluene, benzene etc.). The experimental spread of results did not exceed 4 - 6%. 7 figures. 29 references.

Card 2/2

1482, 2607

27644 S/194/61/000/002/033/039 D216/D302

AUTHORS:

24.1800

Perepechko, I.I. and Yakovlev, V.F.

TITLE:

New interferometric method of measuring absorption

of ultra sound

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 2, 1961, 12, abstract 2 E99 (V sb. Primeneniye ul'traakust, k issled. veshchestva, no. 11, M.,

1960, 213-218)

TEXT: The determination of ultra sound absorption in gases is somewhat difficult (especially when it is small). It can be determined in a comparatively easy manner by observing the changes of voltage at the quartz transmitter. The description is given of the respective methods of measuring the absorption coefficient from the changes of voltage with varying distance between the radiator and reflector. Using the suggested method the absorption coefficient can be determined having only 2 points on the resulting curve. 5 references.

Card 1/1

MALYAVIN, I.G.: YAKOVLEV, V.F.; NOZDREV, V.F.

Investigation of the temperature dependence of the kinematic viscosity of certain organic liquids and their saturated vapors in the critical region. Uch. 2ap. MOPI 92:3-21 '60. (MIRA 14:9) (Organic compounds) (Viscosity)

S/081/61/000/023/019/061 B117/B147

AUTHORS:

Yakovley. V. F. Seregina,

TITLE:

Thermal conditions of plane laminar flow of a viscous

fluid

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 23, 1961, 263, abstract 23137 (Uch. zap. Mosk. obl. ped. in-ta,

v. 92, 1960, 161-169)

In the study of temperature conditions of a plane laminar flow caused by the motion of a plate in fluid, which is thermodynamically stabilized, the authors started from the conceptions on the flows of energy which are the reason of its dissipation. They found that this method allows a more complete description of the stabilized motion than the common hydrodynamic explanation of this process. | Abstracter's note: Complete translation.]

Card 1/1

CIA-RDP86-00513R001961920009-4" **APPROVED FOR RELEASE: 03/14/2001** 

S/194/61/000/008/052/092

24,1800 (1144,1147,1482)

AUTHORS:

Perepechko, I.I. and Yakovlev, V.F.

TITLE:

An optical method of measuring absorption of ultra-

sound

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 8, 1961, 7, abstract 8 E52 (Uch. zap. Mosk. obl. ped. in-ta, 1960, 92, 249-253)

It is stated that the optical diffraction method may be used for measuring not only the velocity, but also the absorption coefficient, without introducing any basic rearrangement of the installation. The Bommel method has been experimentally checked for determining the absorption coefficient from the half-width of the diffraction line of the first order. The absorption coefficients obtained by this were 50 - 100 times greater for argon and nitrogen, and 10 times greater for acetic acid. An optical method is proposed of a constant distance which would permit evaluation of the change

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CIA-RDP86-00513R001961920009 APPROVED FOR RELEASE: 03/14/2001

30503 S/194/61/000/008/052/092 D201/D304

An optical method ...

in the absorption coefficient with changing pressure, temperature of frequency (working with harmonics). The voltage at the quartz is kept constant. The variations in the intensity of the first order diffraction line together with the dependence of piezoelectric constant and of the acoustic resistance of the medium on temperature and pressure permit evaluation of the change of the respective formulae. 4 references. Abstracter's note: Complete translation 7

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Card 2/2